QC ABSTRACT

NAME OF WORK: "Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	PCC(M20)	Compressive Strength(7days and 28days)	7 set /151-200 cum	193.56	14	14

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-04-19-22** **Date: 19-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No.04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri K B Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK D/EPMT-02/W O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 :2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11 DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	_
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-04-19-22 Date: 17-03-21
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-04-19-22** **Date: 19-02-21**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Date: 18-02-21

Lab ID	:	CP-2021-04-19-22
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	-

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/03/2021

Lab ID	:	CP-2021-04-19-22
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:17/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	27/02/2021	06/03/2021	151.59 X 149.01 X 149.57	22589	8.476	419.9	18.6	18.3
2	PCC	M20	27/02/2021	06/03/2021	151.67 X 151.61 X 149.87	22994	8.380	414.2	18.0	
3	PCC	M20	27/02/2021	06/03/2021	150.04 X 150.44 X 150.29	22571	8.143	411.5	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-19-22** **Date: 05/03/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/02/2021	05/03/2021	151.02 X 151.91 X 149.95	22942	8.476	433.3	18.9	18.5
2	PCC	M20	26/02/2021	05/03/2021	150.94 X 149.49 X 149.24	22564	8.380	411.0	18.2	
3	PCC	M20	26/02/2021	05/03/2021	151.60 X 151.99 X 149.84	23043	8.143	426.1	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-19-22** **Date: 26/03/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	26/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/02/2021	26/03/2021	149.25 X 150.90 X 151.17	22521	8.108	521.2	23.1	23.3
2	PCC	M20	26/02/2021	26/03/2021	150.44 X 149.46 X 151.34	22486	8.335	515.8	22.9	
3	PCC	M20	26/02/2021	26/03/2021	151.75 X 149.54 X 149.04	22693	8.328	542.6	23.9	

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TEST REPORT OF FINE AGGREGATE

Date: 18-02-21

Lab ID	:	CP-2021-04-19-22
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-02-21
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-02-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/03/2021

Lab ID	:	CP-2021-04-19-22
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/02/2021	05/03/2021	149.89 X 150.82 X 150.91	22607	8.476	407.3	18.0	18.3
2	PCC	M20	26/02/2021	05/03/2021	149.56 X 151.90 X 150.80	22718	8.380	422.5	18.6	
3	PCC	M20	26/02/2021	05/03/2021	151.01 X 149.08 X 149.00	22513	8.143	411.2	18.3	

* The results obtained are satisfactory as per standard requirements

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-04-19-22 **Date: 26/03/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/02/2021	26/03/2021	150.64 X 150.36 X 150.10	22649	8.108	534.7	23.6	23.3
2	PCC	M20	26/02/2021	26/03/2021	149.50 X 149.23 X 150.88	22310	8.335	511.6	22.9	
3	PCC	M20	26/02/2021	26/03/2021	150.89 X 149.58 X 150.51	22569	8.328	529.6	23.5	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/03/2021

Lab ID	:	CP-2021-04-19-22
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	05/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/02/2021	05/03/2021	149.55 X 151.70 X 150.28	22686	8.476	415.1	18.3	18.4
2	PCC	M20	26/02/2021	05/03/2021	151.94 X 151.90 X 151.58	23079	8.380	435.2	18.9	
3	PCC	M20	26/02/2021	05/03/2021	150.68 X 151.30 X 149.93	22798	8.143	410.7	18.0	

* The results obtained are satisfactory as per standard requirements

Note:

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All information furnished by Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-19-22** **Date: 26/03/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	"Additional Grant for Construction of Parking Lots at 16th A & B Cross Roads in Ward No:04 of Yelahanka Satellite Town Sub division."
Agency	:	Sri.K.B.Alankar, No:47/3, Sahakarnagara, A Block, Byatarayanapura, Bangalore-560092
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-02/W.O/80/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	26/02/2021	26/03/2021	150.70 X 151.92 X 151.60	22894	8.108	543.5	23.7	23.2
2	PCC	M20	26/02/2021	26/03/2021	150.25 X 149.77 X 150.70	22502	8.335	510.0	22.7	
3	PCC	M20	26/02/2021	26/03/2021	151.20 X 150.59 X 149.81	22769	8.328	525.4	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

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